

# Benchmark Portable Navigation PN 2050



## Competitors overview

**SIEMENS VDO**



Garmin nüvi 360



Blaupunkt Lucca 3.3



Sony NV-U70T



TOM TOM 510

## VDO Dayton PN 2050 Vs. Garmin Nüvi 360

**SIEMENS VDO**



VDO Dayton PND 2050

Vs.



Garmin Nüvi 360

\*With TMC and Europe MAP

## VDO Dayton PN 2050 Vs. Garmin Nüvi 360

**SIEMENS VDO**

### VDO Dayton PND 2050



### Garmin Nüvi 360



Automatic Display Brightness Control

No

Menu languages 21

22

Spoken languages 24

21

Shortcuts Entry (Home Work)

No

Intelligent Typewriter

No

IR Remote Control

No

Games: Sudoku . Blockcracker

No Games

## VDO Dayton PN 2050 Vs. Garmin Nüvi 360

**SIEMENS VDO**

### VDO Dayton PND 2050



Infobar 4 customizable infobars: choose between: Time, Date, Estimates time of arrival, remaining travel time, remaining travel distance, legal speed limits, current speed, altitude above sea level, battery status, GPS status

### Garmin Nüvi 360



No



## VDO Dayton PN 2050 Vs. Blaupunkt Lucca



VDO Dayton PN 2050

VS.



Blaupunkt Travel Pilot Lucca 3.3

\*With TMC and Europe MAP

\*\* No TMC

## VDO Dayton PN 2050 Vs. Blaupunkt Lucca

**SIEMENS VDO**

### VDO Dayton PND 2050



Intelligent Typewriter  
Dynamical Navigation is possible  
Automatic Display Brightness Control  
IR Remote Control  
Destination history: 50  
Address memory: 250  
Dimensions: 112 x 77 x 24 mm  
Weight: 180g

### Blaupunkt Travel Pilot Lucca 3.3



No  
No  
No  
No  
30  
100  
Dimensions: 115 x 80 x 25 mm  
Weight: 190g

## VDO Dayton PN 2050 Vs. Blaupunkt Lucca

**SIEMENS VDO**

### VDO Dayton PND 2050



Destinations Memory (No information)  
Personal addresses Memory (No Information)  
Menu languages 21  
Spoken languages 24

Infobar: 4 customizable infobars: choose between: (Time, Date, Estimates time of arrival, remaining travel time, remaining travel distance, legal speed limits, current speed, altitude above sea level, battery status, GPS status)

### Blaupunkt Travel Pilot Lucca 3.3



Destinations Memory 30  
Personal addresses Memory 100  
Menu languages 17  
Spoken languages 17

No



## VDO Dayton PN 2050 Vs. Blaupunkt Lucca

**SIEMENS VDO**

### VDO Dayton PND 2050



TMC Info for re-routing

TMC Info on the Route

Bluetooth via MA 3000BT

Games (Sudoku, Blockcracker)

Map supplier: Navteq/2006

### Blaupunkt Travel Pilot Lucca 3.3



No

No

No

No

Map supplier: Tele Atlas/2006

## VDO Dayton PN 2050 Vs. TomTom 510

**SIEMENS VDO**



VDO Dayton PN 2050

VS.



TOMTOM 510

\*With TMC and Europe Map

\*\* only D/A/CH Map

## VDO Dayton PN 2050 Vs. TomTom 510

**SIEMENS VDO**

### VDO Dayton PND 2050



### TomTom 510



Automatic Display Brightness Control

No

Games: Sudoku, Blockcraker

No

Infobar 4 customizable infobars: choose between: Time, Date, Estimates time of arrival, remaining travel time, remaining travel distance, legal speed limits, current speed, altitude above sea level, battery status, GPS status

No

## VDO Dayton PN 2050 Vs. TomTom 510

**SIEMENS VDO**

### VDO Dayton PND 2050



Dimensions: 112x77x24 mm

Weight 180 g

### TomTom 510



Dimensions: 112x81x66 mm

Weight 300g

## VDO Dayton PN 2050 Vs. Sony NV-U70 T

**SIEMENS VDO**



VDO Dayton PN 2050

VS.



Sony NV-U70T

\*With TMC and Europe MAP

## VDO Dayton PN 2050 Vs. Sony NV-U70 T

**SIEMENS VDO**

### VDO Dayton PND 2050



### Sony NV-U70T



Automatic Display Brightness Control

No

POI Warning

No

Intelligent Typewriter

No

Destination Entry via coordinates

No



## VDO Dayton PN 2050 Vs. Sony NV-U70 T

**SIEMENS VDO**

### VDO Dayton PND 2050



Alternative route display

Menu languages 21

Spoken languages 24

Special Destinations and categories 40

IR Remote Control

### Sony NV-U70T



No Alternative Route display

15

15

19

No

## VDO Dayton PN 2050 Vs. Sony NV-U70 T

**SIEMENS VDO**

### VDO Dayton PND 2050



Dimensions: 112 x 77 x 24 mm

Weight: 180 g

MP3 player , JPEG viewer

Games Sudoku and Blockcracker

Bluetooth Adapter (Optional)

### Sony NV-U70T



Dimensions 104.7 x 87.5x 42.9 mm

Weight: 310 g

No MP3 , No JPEG viewer

No games

Bluetooth Not available

### USP Features to emphasise on:

Auto Connect 02/2006: 38 tested Navigation devices (1):

- The VDO Dayton PN 2050 achieved a very good grade in the category navigation achieving 68 from 70 possible points
- The VDO Dayton PN 2050 has a very fast system achieving 19 from 20 possible points. (faster than the Auto connect Test winner: Tom Tom go 910))
- The VDO Dayton PN 2050 achieved a „Very good“ score in the category handling achieving 131 from 150 possible Points (38 tested navigation systems)
- The PN 2050 achieved 27 from 30 possible points in the terms of interurban routing and even the maximum of points achievable (30/30) in city routing.

### USP Features to emphasise on:

Auto Connect 02/2006: 38 tested Navigation devices (2):

- It achieved a better destination guide performance than the best in the auto connect test (only Tom Tom Europe has the same score)
- It achieved the highest score in Terms of inner-city navigation
- The PN 2050 Costs less than half as much as the Test winner (Tom Tom go 910: 729€) while only achieving 10 % less point than the winner. Still being even better in many under categories
- The PN 2050 would have been the winner in case that the Bluetooth and TMC for the PN2050 were tested during the Auto Connect Benchmark

### USP Features to emphasise on:

- Very Smart Hardware Design coupled with modern graphic Design
- a swift route calculation: it takes in average only 10 seconds to asses the route.
- due to it's timing: "The voice output is the best of all current available mobile Systems"
- Automatic Display Brightness Control
- GPS performance : "Thanks to the SiRF-III-GPS Ship set, the GPS performance is state of the art Performance"

### USP Features to emphasise on:

- The Map Display is colourful and offers many customization possibilities
- The Icons are very finger suitable: Even with big finger you can easily operate the touch screen
- Intelligent typewriter: When typing an address or a Zip Code in, the Letter or Numbers that you don't need will hide, it makes it easier to Select your destination
- You can enter your Destination in multiple ways: via Zip Code, Adresse, junction, on the Map, GPS coordinates, Last Destination, Home &Work
- Points of interest (POI) in 40 categories: city centres, petrol stations, hotels, restaurants, shopping centres, airports and more
- A Variaty of Selectable Menu languages (21) as well as spoken voices (24)



### USP Features to emphasise on:

- Widest range of map products in Europe, North-America, Australia, Asia (Singapore)
- Full Europe Maps are available on a Navteq SD Card (2GB) . A very good product to good price

" Tiny, versatile and beautyfull" [www.auto-entertainment.de](http://www.auto-entertainment.de)

The PN2050 was rated "good" by [www.testberichte.de](http://www.testberichte.de) 11/2006

The PN2050 is "recommendable" by Auto Motor Sport 23/2006

# Details

# Details

**SIEMENS VDO**

Features	VDO Dayton PN 2050	Blaupunkt Travel Pilot Lucca	Garmin nüvi 360	Tom Tom 510	Sony NV-U70T
<b>Navigation</b>					
Destination Entry: via Zip Code	Yes	Yes	Yes	No (UK&NL only)	
Destination Entry: via path-points (via points);Multi-stop destinations	No	Yes	Yes	Yes	
Destination Entry: via street name /street number	Yes	Yes	Yes	Yes	
Destination entry: via Junction	Yes	Yes	Yes	Yes	
Destination entry: via contacts	No			Yes	
Destination entry: via GPS coordinates	Yes			Yes	
Destination entry: via Input on map	Yes	Yes	Yes	Yes	Yes
Letterhiding	Yes		Yes		
Special Navigation	No	Yes (Pedestrian)	Yes (Pedestrian/Bus/Truck/Taxi/Emergency)		
POI: Point of interest (Special Destinations)	Yes	Yes (petrol stations, Parking possibilities, Hotels, etc...)	Yes	Yes(1000's)	Yes
Go Home Funktion	Yes	Yes	Yes		
Destinations History	50	30			
Personal addresses Memory	250	100	500		
Menu languages	21	17	Multilanguage	Multilanguage	15
Spoken languages	24	17	Multilanguage	36 Languages/50 different voices	Multilanguage
Announcment of street and motorway number	Yes	Yes	Yes		
Route criteria	5: Fastest, shortest Route. Prefer/Avoid motorways, Motorbike		Fastest, shortest Route	Fastetst, shortest	Fastetst, shortest
Route criteria (optional)	3. avoid toll roads, avoid ferries, consider traffic informations	avoid toll roads, avoid ferries,	avoid toll roads, avoid ferries,	avoid toll roads, avoid known congestions areas, required arrival time etc...	avoid toll roads, avoid ferries

# Details

**SIEMENS VDO**

Features	VDO Dayton PN 2050	Blaupunkt Travel Pilot Lucca 3.3	Garmin nüvi 360	Tom Tom 510	Sony NV-U70T
Rerouting	Yes		Yes	Yes	
Infobar	4 customizable infobars: choose between: Time, Date, Estimates time of arrival, remaining traveltime, remaining travel distance, legal speed limits, current speed, altitude above sea level, battery status, GPS status			Customisation of Start Menu or last location etc..	
Position independant Route planning	Yes				
Alternative Route	Yes		No		No
Directional arrow	Northwards/heading-up Mode	Yes	Yes		
Map Display	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Zoom function	Auto zoom/manual zoom (selectable)		Yes		
Map Display	City names/Street names	City names/Street names/Enlarged junction display			
Distance Display	KM/Miles				
Calibration Time					
Preinstalled Maps (Countries)	No				

# Details

**SIEMENS VDO**

Features	VDO Dayton PN 2050	Blaupunkt Travel Pilot Lucca 3.3	Garmin nüvi 360	Tom Tom 510	Sony NV-U70T
Lithium-Ion Battery	Yes (1400mAh)	Yes	Yes	Yes	
Battery durability	4h of Navigation	3h of Navigation	4-8 h depending on use	4h	
Removable/Rechargeable Battery	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Dimensions (W x L x D)	112mm x 77mm x 24 mm	115 mm x 80 mm x 25 mm	98.3mm x 73.9mm x 22.1mm	112mm x 81mm x 66 mm	(104.7mm x 87.5mm x 42.9mm)
Weight	180g	190g	145g	300g	310g
Operating temperature	-20°...+60° C	-20°...+60° C	0°...+60° C		
Loading temperature for Lithium-Ion Battery	0°... +45° C				
Power Supply	. Integrated battery, 12V . Cigarette lighter (Adaptor included) 12/24V . AC Main Power (Adaptor included) (100V - 240V)	. Integrated battery, 12V/24V? . Cigarette lighter (Adaptor included) . AC Main Power (Adaptor included) (100V - 240V)	. Integrated battery, 12V/24V . Cigarette lighter (Adaptor included) . AC Main Power (Adaptor included) (100V - 240V)	. Integrated battery, 12V/24V . Cigarette lighter (Adaptor included) . AC Main Power (Adaptor included) (100V - 240V)	. Integrated battery, 12V/24V . Cigarette lighter (Adaptor included) . AC Main Power (Adaptor included) (100V - 240V)

# Details

**SIEMENS VDO**

Features	VDO Dayton PN 2050	Blaupunkt Travel Pilot Lucca 3.3	Garmin nüvi 360	Tom Tom 510	Sony NV-U70T
<b>Technical Data</b>					
<b>GPS</b>					
GPS Reciever	SIRFStarIII		SIRFStarIII™-reciever, WAAS-/EGNOS-capable		
Starting time	Warmstart 1sec.Coldstart 30sec.		Warmstart: 1sec; Coldstart: 38 sec. Autolocate: 45 sec		
Position calculation			permanant 1 time every second		
GPS precision			less than 10Meters RMS/speed: 0,05 m/sec. with EGNOS 1 Meters		
<b>Ergonomic, Safety and Ease of use</b>					
Day/Night Map View Mode	Yes			Yes	
Steering Wheel Remote Control compatibility	Yes (RCS 5100)				
Automatic display Brightness control	Yes			Yes (light sensor)	
Reduction of Reflection	Yes (With Antiglare coating)	Yes		Yes (Antiglare screen)	
PINLock	No		Yes		
SDVC				Yes	
Noise Reduction/Echo cancelation				Yes	
Speed allert	Yes	Yes		Yes	
Speed camera Information	Yes			Yes (Fix and Mobile)	
Traffic Sign Information		Yes			
Handsfree Kit				Yes (via Bluetooth)	



# Details

**SIEMENS VDO**

Features	VDO Dayton PN 2050	Blaupunkt Travel Pilot Lucca 3.3	Garmin nüvi 360	Tom Tom 510	Sony NV-U70T
<b>Special Features</b>					
MP3 player:	Yes (Folder view, Repeat Track, Random Play, Equalizer, Next Track, Next Album)	Yes from SD Card (while navigating)	Yes	Yes	No
WMA Player	No	Yes from SD Card (while navigating)			No
JPEG Viewer	Yes (Fullscreen, Next Picture, Next Album, Slide Show)	Yes from SD Card (while navigating) as well as JPEG, BMP and GIF	Yes	Yes	No
Games	Yes (Sudoku, Blockcracker)				
Demo Program		Yes			No
<b>Options</b>					
IR Steering Wheel Remote Control RCS 5100	Yes	RC 09 Steering wheel-mounted remote control		Handsfree Kit	Neoprene Carrying Case
External GPS Antenna MA 2010	Yes				Complete mounting Kit for 2nd vehicle, External GPS Antenna
<b>General Info.</b>					
Retail Price in €	399	299	599	449	499
Map supplier	Tele Atlas/2006	Tele Atlas/2006	Navteq/2006	Navteq/2006	Navteq 2005
Delivery content	Depends on Salesperson	Mounting, AC charger, cigarette lighter charger, quick start guide, user instructions	USB Cable, AC Charger, cigarette lighter charger, window mounting, leather substitute case, user instructions	SD card, case, Home Dock, cigarette lighter charger, mounting, external microphone	car Mounting, cigarette lighter charger, AC charger, USB cable, Use Manual, Application Disc (DVD ROM), case